查询ERA15-01供应商

SIYU®

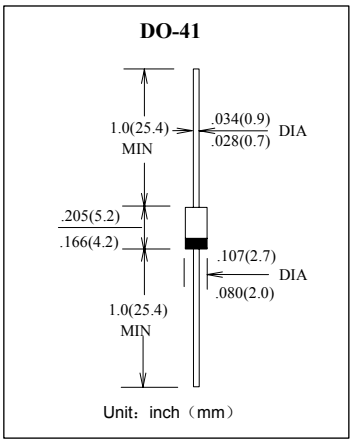
ERA15-01.....ERA15-10

塑封普通整流二极管

反向电压 100 ---1000 V
正向电流 1.0 A

General Purpose Plastic Rectifier

Reverse Voltage 100 to 1000 V
Forward Current 1.0 A



特征 Features

- 低的反向漏电流 Low reverse leakage
- 较强的正向浪涌承受能力 High forward surge capability
- 高温焊接保证 High temperature soldering guaranteed:
  250℃/10 秒, 0.375" (9.5mm)引线长度。
  250℃/10 seconds, 0.375" (9.5mm) lead length,
- 引线可承受5 磅 (2.3kg) 拉力。 5 lbs. (2.3kg) tension

机械数据 Mechanical Data

- 端子: 镀锡轴向引线 Terminals: Plated axial leads
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性 TA = 25℃ 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	符号 Symbols	ERA 15-01	ERA 15-02	ERA 15-04	ERA 15-06	ERA 15-08	ERA 15-10	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	100	200	400	600	800	1000	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	100	200	400	600	800	1000	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	1.0						A
峰值正向浪涌电流 8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	40						A
最大反向峰值电流 @TA = 75℃ Maximum peak reverse current full cycle	$I_{R(AV)}$	30						μA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	65						℃/W
工作结温和存储温度 Operating junction and storage temperature range	Tj, TSTG	-50 --- +150						℃

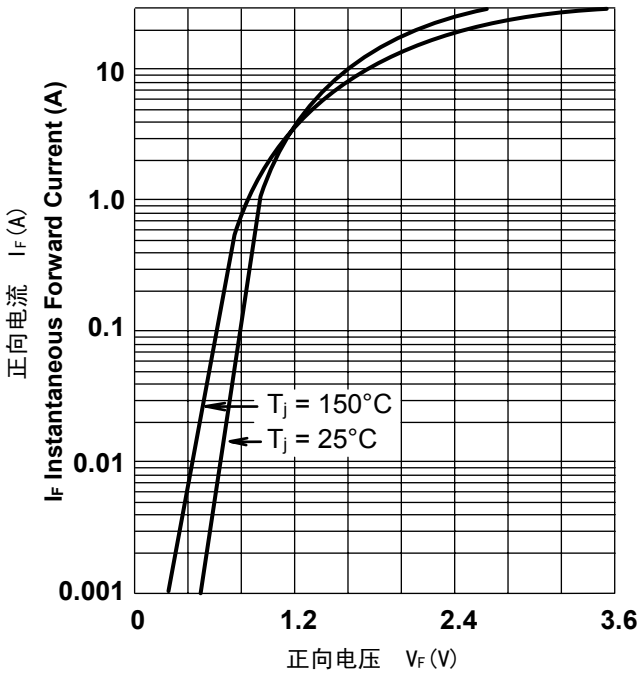
电特性 TA = 25℃ 除非另有规定。

Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

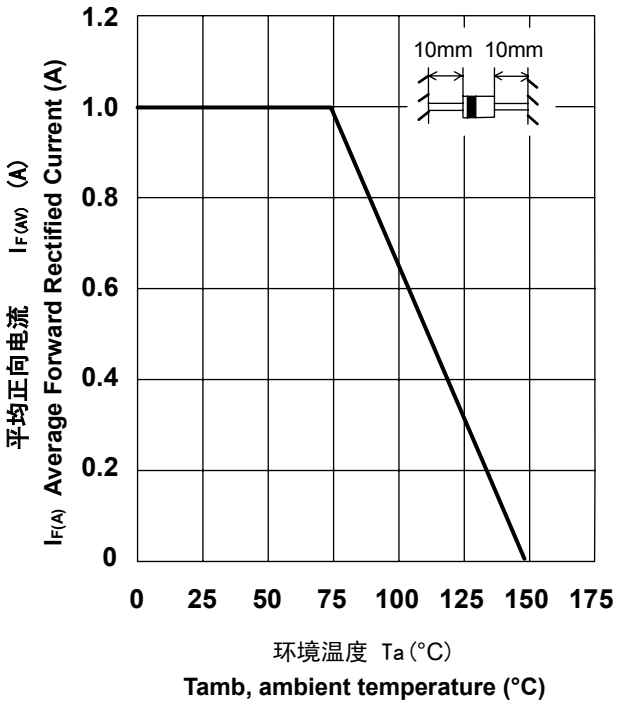
	符号 Symbols	ERA 15-01	ERA 15-02	ERA 15-04	ERA 15-06	ERA 15-08	ERA 15-10	单位 Unit
最大正向电压 I_F = 1.0A Maximum forward voltage	V_F	1.1						V
最大反向电流 TA= 25℃ TA=100℃ Maximum reverse current	I_R	5.0 200						μA
典型结电容 V_R = 4.0V, f = 1MHz Type junction capacitance	Cj	12						pF

特性曲线　Characteristic Curves

正向特性曲线（典型值）
TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线
FORWARD CURRENT DERATING CURVE



浪涌特性曲线（最大值）
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT